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## (54) SITE DIVERSITY RECEIVING METHOD IN MOBILE COMMUNICATION SYSTEM AND HOST UNIT OF BASE STATION

### (57)Abstract:

**PROBLEM TO BE SOLVED:** To obtain a site diversity receiving method in mobile communication system and a host unit of base station in which error rate is improved without increasing the flow rate of signal on the transmission line between a base station and the host unit of base station.

**SOLUTION:** A turbo code signal from a mobile terminal station is received at a plurality of base stations and each base station turbo decodes the received signal before being transmitted to the host unit of base station. When turbo decoding is performed at the base station, the element decoder being used in the last decoding is differentiated among respective base stations. In the host unit of base, a discriminating section 37 distributes the signal from each base station depending on the type of element decoder used last, only element encoders 34B1-34Bk or 34C1-34Cm corresponding to the last element decoders perform encoding, and signals encoded by the same type of element encoders are synthesized, respectively, at synthesizing sections 35B and 35C and decoded by a turbo decoder 36.

